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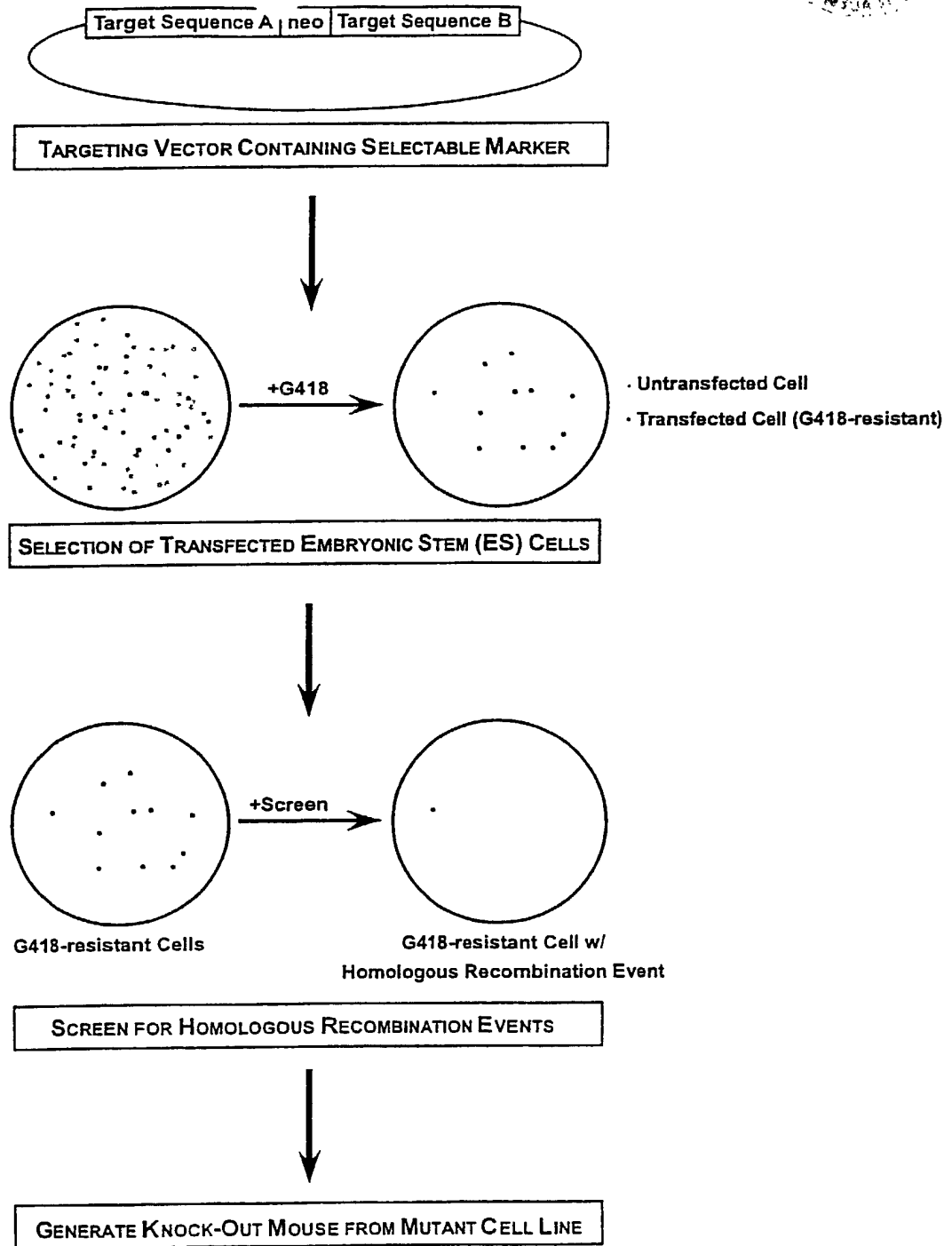
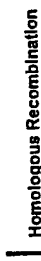


FIGURE 1

A.



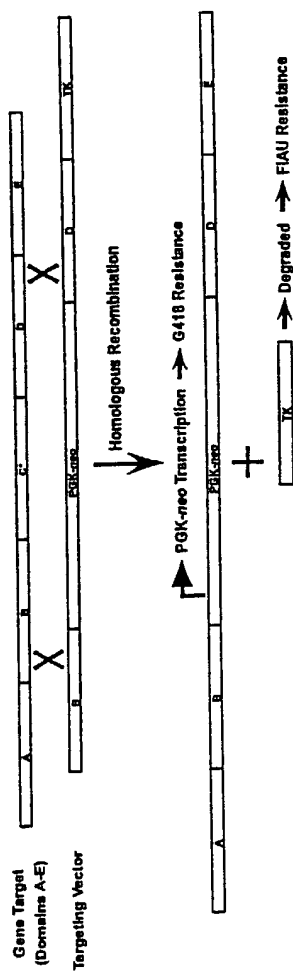
൩



DISTINGUISH EVENTS BY SCREENING MOLECULARLY (PCR & SOUTHERN)

[illegible]

A.



Random Integration: G418 Resistance + FIAU Sensitivity

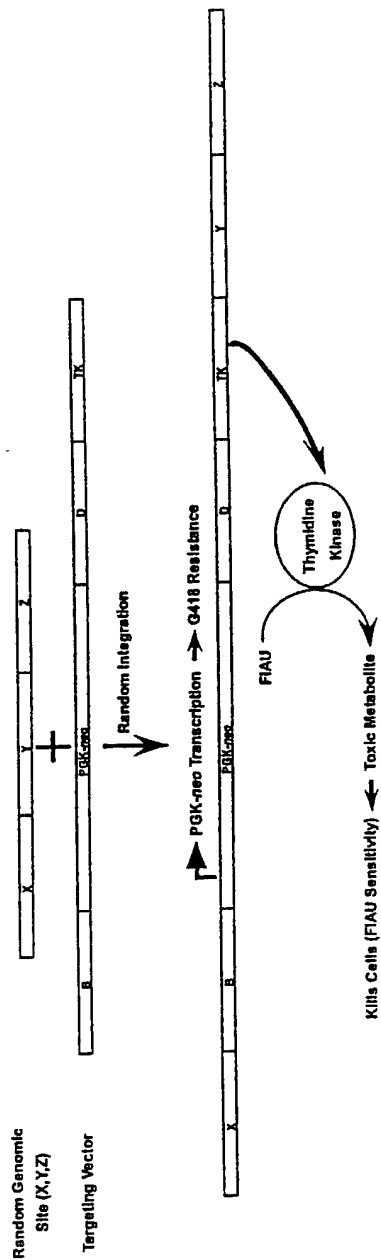


FIGURE 3

[illegible]

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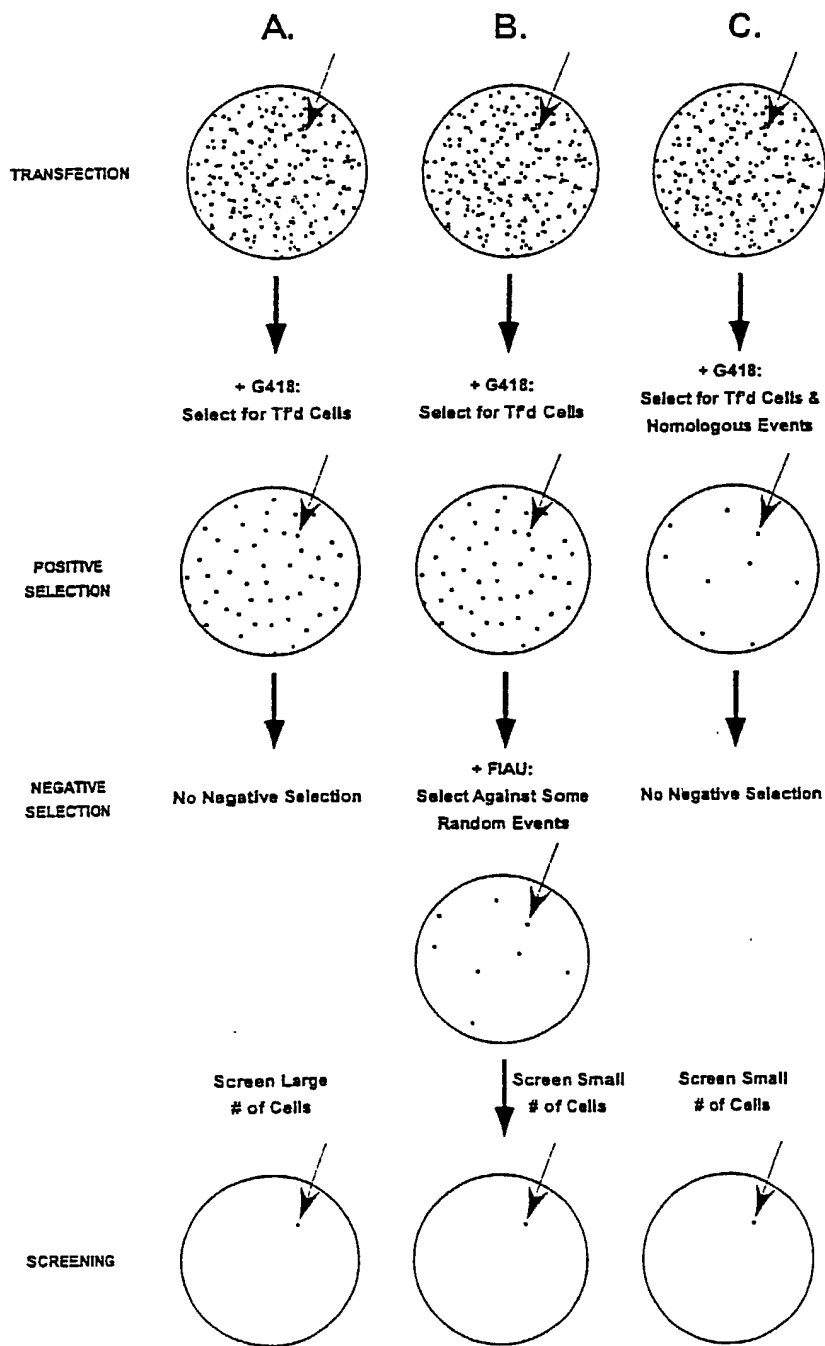


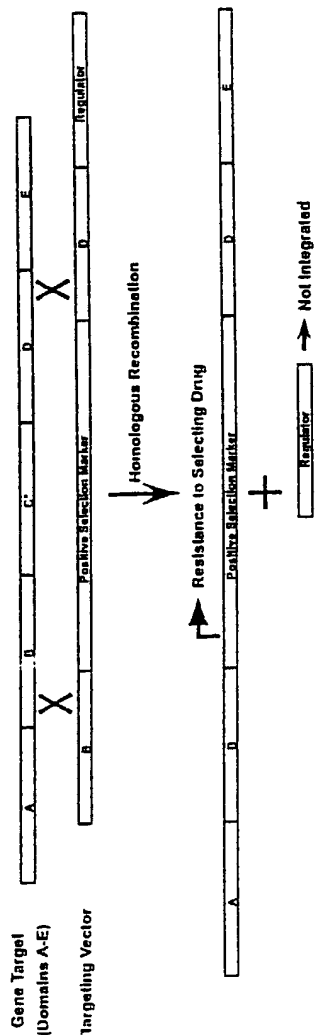
FIGURE 4



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A.

Homologous Recombination: Resistance to Selecting Drug



B.

Random Integration: Sensitivity to Selecting Drug

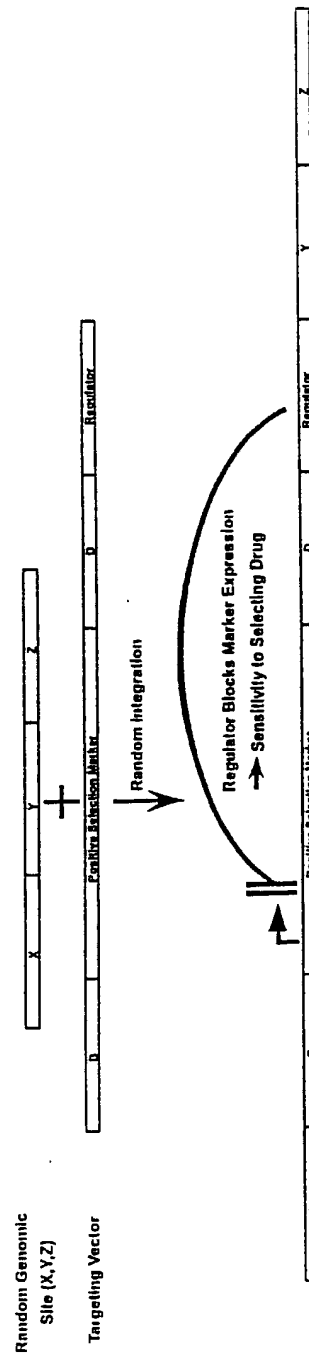


FIGURE 5

0554463 . 030402

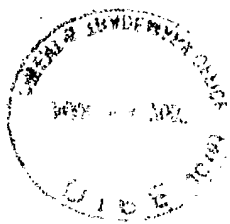
FIGURE 6A

A	B	C	D	E
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B **PGR-req** **D**

[illegible][illegible]

FIGURE 6 B-E

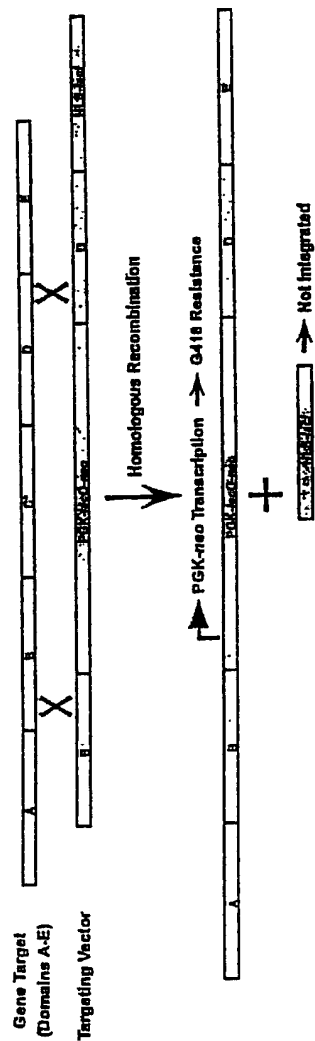




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A.

Homologous Recombination: G418 Resistance



B.

Random Integration: G418 Sensitivity

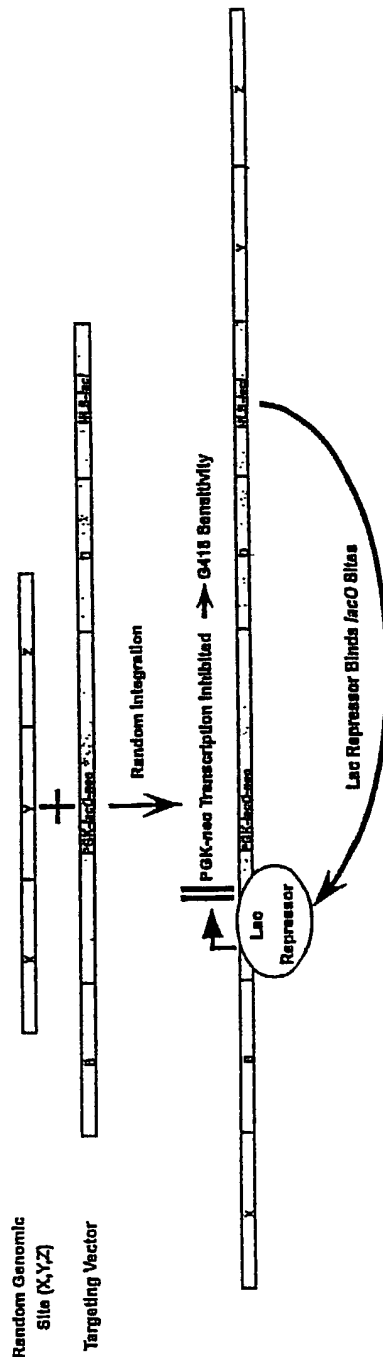
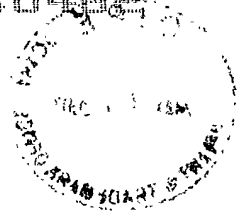


FIGURE 7

00554403 030402

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<u>Oligo #</u>	<u>Sequence (5' to 3')</u>
10164	CGGAATTCACCTGCCAGACCATGCCAAAAAGAAGAGAAAGGTCATGAAACCAGTAACGTTATACG
10165	CGGAATTCTCACTGCCCGCTTTCCAGTCG
10218	GCATTCTCGCAAGCTTCAAAAGCGCACGTCTGCCGCGCTATTGTGAGCGCTCACAATCCGGGCCTTTCGACCTG
9959	TCATCAATTTCTGCAGAC
10219	TGCGCTTTTGAAGCTTGCGAGAATGCCGGGATTGTGAGCGCTCACAATAGGACCTTCGCGCCCGCC
4201	CAGGAAACAGCTATGAC

FIGURE 8



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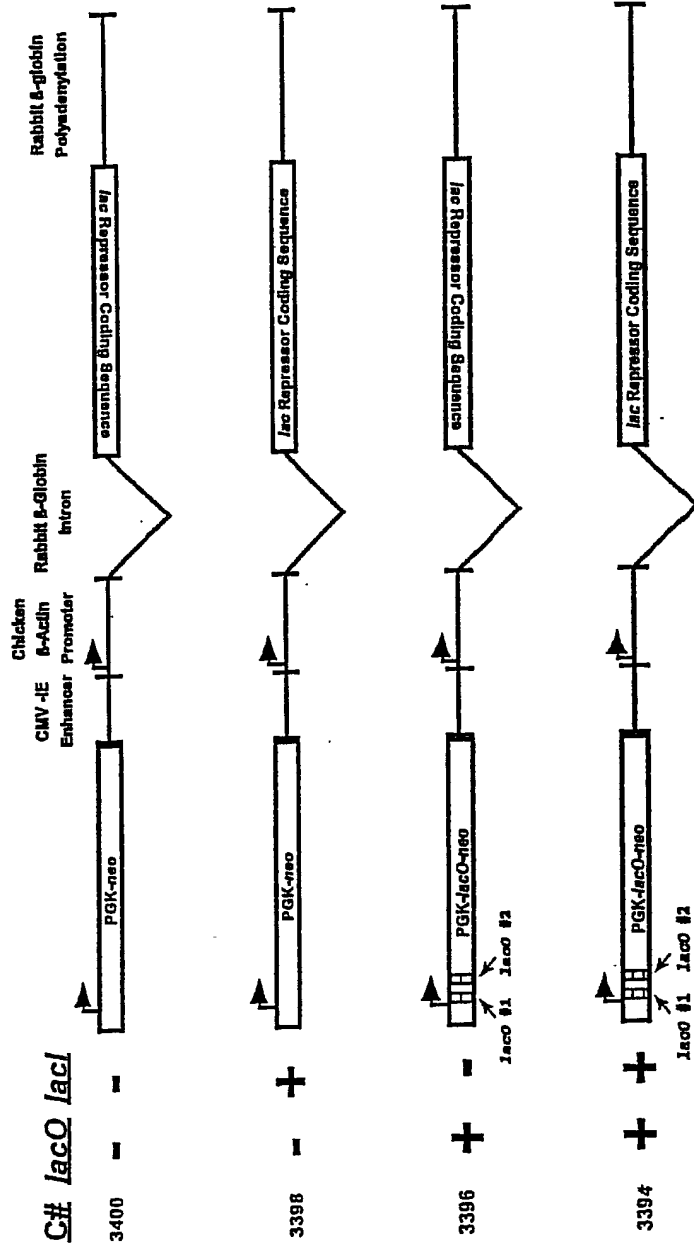


FIGURE 9

03054403 030403

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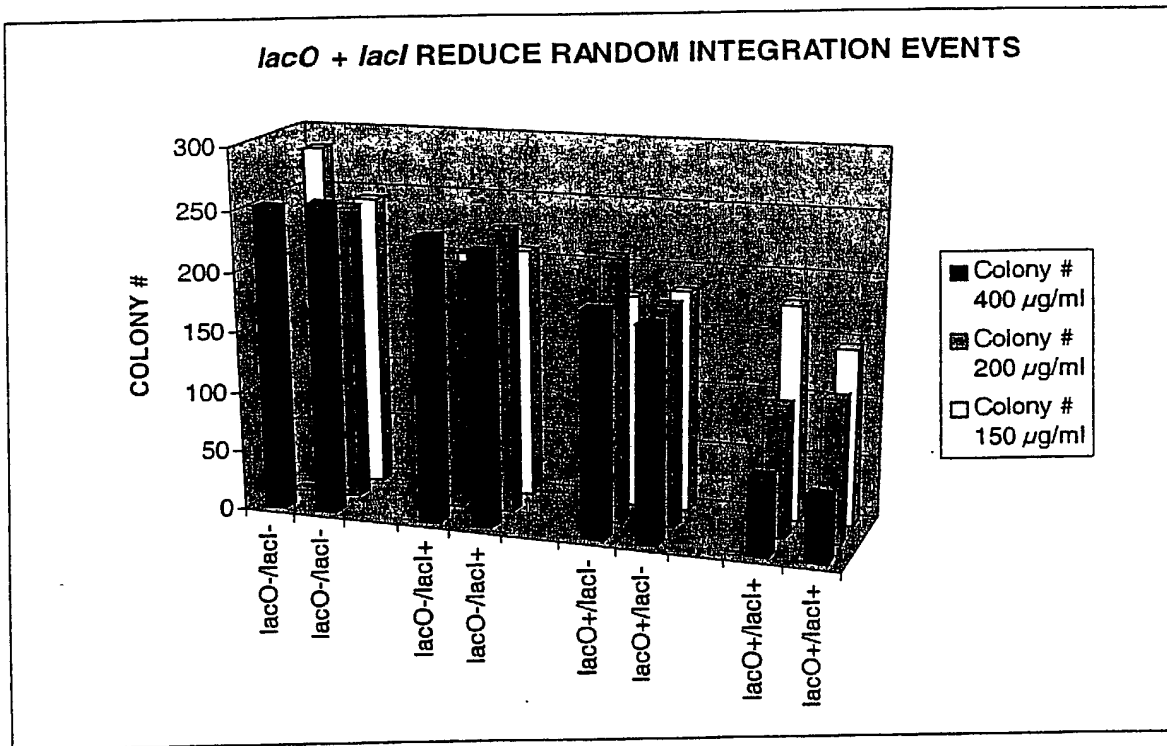


FIGURE 10



FIGURE 11

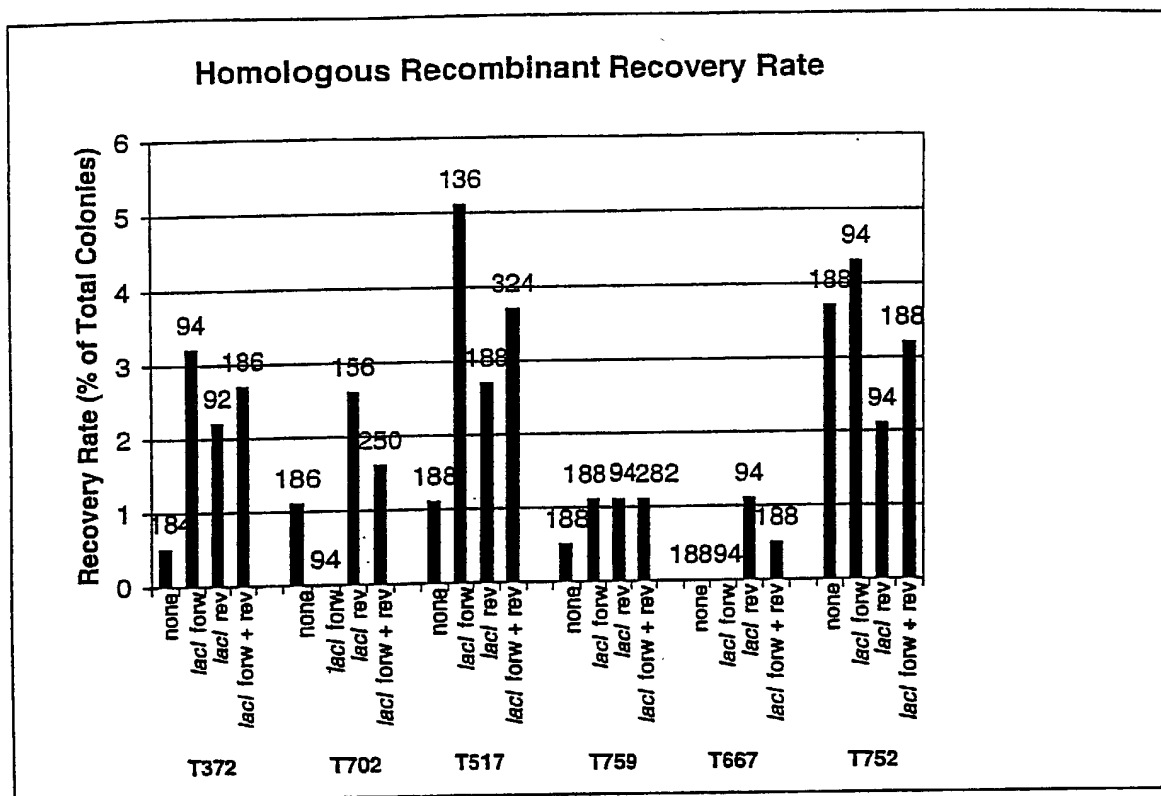
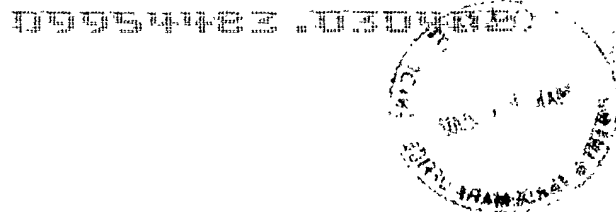
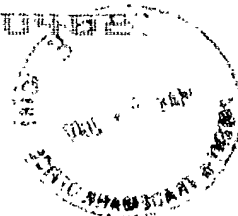


FIGURE 12



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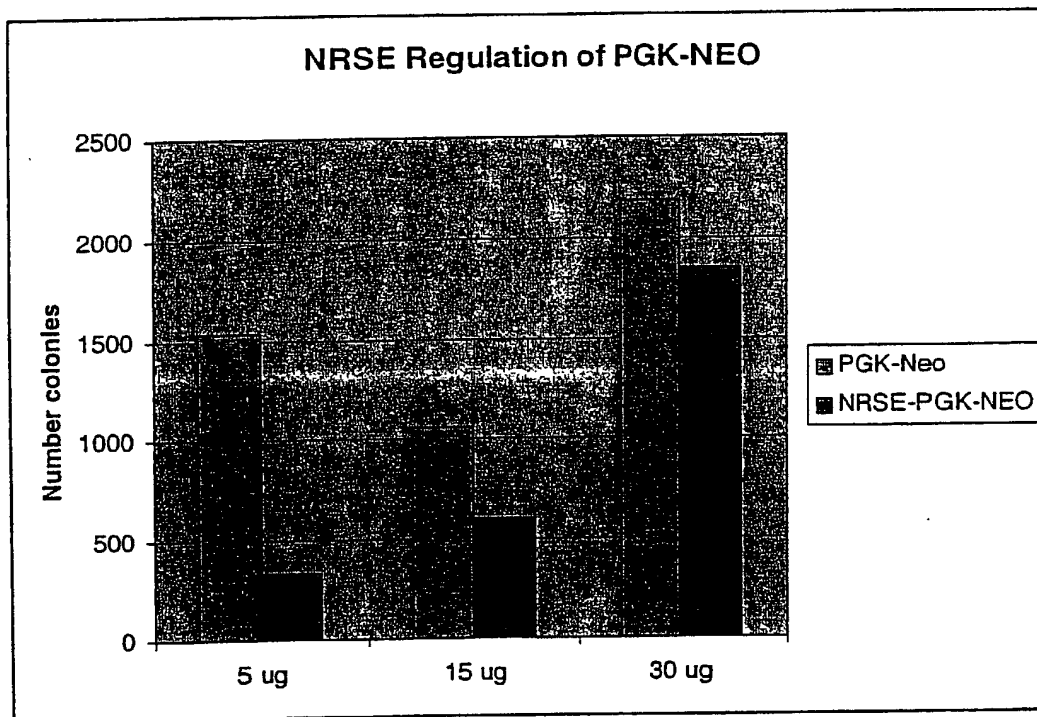
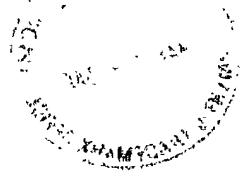


FIGURE 13



GCGGCCGCGAGTCGACGAGGCCGCGGATTAATTAAGGCTCgacattgattattgactag
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gtcaataatgacgtATgttcccatagtaacgccaatagggaactttccattgacgtcaatg
ggaggagtattttacggtaaaactgccacttggcagtaacatcaagtgtatcatatgccaag
tacgccccctattgacgtcaatgacggtaaatggcccgctggcattatgcccagtaacAT
GACCTTACGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCAT
GGTtcgaggtgagccccacgttctgcttcaactctccccatctccccccccctccccacccc
caattttgtattttatttttttaattattttgtgacagcatggggggcggggggggggggg
gggcgcgcgcagggcggggcgggcgggcgaggggcgggcgggcgaggcgagaggtg
gcggcgagcagccaatcagagcggcgcgctccgaaagtttccttttatggcgaggcgggcg
cggcgggcgggccctataaaaAGCGAAGCGCGCGGGCGGGGAGTCGCTGCGTGTGCTTCG
CCCCGTGCCCCGCTCCGCGCCGCTCGCGCCGCCCGCCCCGGCTCTGACTGACCGCGTTA
CTCCACAGGTGAGCGGGCGGGACGGCCCTTCTCCTCCGGGCTGTAATTAGCGCTTGGTT
TAATGACGGCTCGTTTCTTTTCTGTGGCTGCGTGAAAAGCCTTAAAGGGCTCCGGGAGGGC
CCTTTGTGCGGGGGGGAGCGGCTCGGGGGGTGCGTGCGTGTGTGTGTGCGTGGGGAGCGC
CGCGTGCGGCCCGCGCTGCCCGGGCGGCTGTGAGCGCTGCGGGCGCGGCGCGGGGCTTTGT
GCGCTCCGCGTGTGCGCGAGGGGAGCGCGGGCGGGGCGGTGCCCGCGGTGCGGGGGGG
CTGCGAGGGGAACAAAGGCTGCGTGCGGGGTGTGTGCGTGGGGGGGTGAGCAGGGGTGT
GGGCGCGGGCGGTGCGGCTGTAAACCCCCCTGCACCCCCCTCCCCGAGTTGCTGAGCACG
GCCCCGCTTCGGGTGCGGGGCTCCGTGCGGGGCGTGCGCGGGGGCTCGCCGTGCCGGGCG
GGGGGTGGCGGCAGGTGGGGGTGCCGGGCGGGGCGGGGCCGCTCGGGCCGGGGAGGGCT
CGGGGGAGGGGCGCGGCGGGCCCCGGAGCGCCGGCGGCTGTGAGGCGCGGCGAGCCGAG
CCATTGCCTTTTATGGTAATCGTGCGAGAGGGCGCAGGGACTTCCTTTGTCCCAAATCTG
GCGGAGCCGAAATCTGGGAGGCGCCGCCGACCCCCCTCTAGCGGGCGCGGGCGAAGCGGT
GCGGCGCCGCGAGGAAGGAAATGGGCGGGGAGGGCCTTCGTGCGTGCGCCGCGCGCGTC
CCCTTCTCCATCTCCAGCCTCGGGGCTGCCGCGAGGGGACGGCTGCCTTCGGGGGGGACG
GGGCGAGGGCGGGGTTCGGCTTCTGGCGTGTGACCGGCGGctctaGAGCCTCTGCTAACCA
TGTTTCATGCCTTCTTCTTTTCTTACAGctcctgggcaacgtgctggttgttgtgctgct
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ggtggtgcccacctggtcgagctggacggcgacgtaaacggccacaagtccagcgtgct
cggcgaggggcgaggggcgatgccacctacggcaagctgaccctgaagttcatctgcaccac
cggcaagctgcccgtgcccggccaccctcgtgaccacccctgacctacggcggtgagtg
ctcagcgtcaccgagaccacatgaagcagcagacttctcaagtccgccaagccgga
aggctacgtccaggagcgaccatcttctcaaggacgacggcaactacaagaccgcg
cgaggtgaagttcgaggggcgacaccctggtgaaccgcatcgagctgaaggcgatcgactt
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ctatatcatggccgacaagcagaagaacggcatcaaggtgaacttcaagatccgccacaa
catcgaggacggcagcgtgacgtcgccgaccactaccagcagaacacccccatcgggcga
cggccccgtgctgctgcccgacaaccactacctgagcaccagtcgcgccctgagcaaaaga
ccccaacgagaagcgcgatcacatggtcctgctggagttcgtgaccgcccggggatcac
tctcggcagtgagcagctgtacaagtaaGAATTCACCTCCTCAGGTGCAGGCTGCCTATCA
GAAGGTGGTGGCTGGTGTGGCCAATGCCCTGGCTCACAAATACCACTGAGATCTTTTTCC
CTCTGCCAAAAATTATGGGGACATCATGAAGCCCCCTTGAGCATCTGACTTCTGGCTAATA
AAGGAAATTTATTTTCATTGCAATAGTGTGTGGAAATTTTTTGTGTCTCTCACTCGGAAG
GACATATGGGAGGGCAAATCATTTAAACATCAGAATGAGTATTTGGTTTAGAGTTTGGC
AACATATGCCATATGCTGGCTGCCATGAACAAAGGTGGCTATAAAGAGGTCATCAGTATA
TGAAACAGCCCCCTGCTGTCCATTCTTATTCATAGAAAAGCCTTGACTTGAGGTTAGA
TTTTTTTATATTTTGTGTTTATTTTTTCTTTAATATCCCTAAATTTCTCTTAC
ATGTTTTTACTAGGAGATTTTTTCTCTCTCTGACTACTCCAGTCATAGCTGTCCCTC
TTCTCTTATGAAGATCccctcgacctgcagcccaagctCGGGGCCAGGTCCGCCGCGAT
CGCGAGAATTCGGCTTAAGTGAGTCGTATTACGGACTGGCCGTCGTTTTACAACGTCGTG
ACTGGGAAAACCCTGGCGTTACCCAACTTAATCGCCTTGACGACATCCCCCTTTCCGCA
GCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGA

FIGURE 14A



ATGGCGAATGGCGCTTCGCTTGGTAATAAAGCCCGCTTCGGCGGGCTTTTTTTTGGTTAA
CTACGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTCT
AAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCGTGATAAATGCTTCAATAAT
ATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTCGCCCTTATCCCTTTTTTG
CGGCATTTTGCCTTCCCTGTTTTTGTCTACCCAGAAACGCTGGTGAAAGTAAAAGATGCTG
AAGATCAGTTGGGTGCACGAGTGGGTACATCGAACTGGATCTCAACAGCGGTAAGATCC
TTGAGAGTTTTCGCCCCGAAGAAGCTTCTCCAATGATGAGCACTTTTAAAGTTCTGCTAT
GTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTTCGCCGCATACACT
ATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCA
TGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATAACACTGCGGCCAAT
TACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCACAACATGGGGG
ATCATGTAACCTCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGACG
AGCGTGACACCACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTAACCTGGCG
AACTACTTACTCTAGCTTCCCGGCAACAATTAATAGACTGGATGGAGGCGGATAAAGTTG
CAGGACCACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATAAATCTGGAG
CCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCC
GTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGA
TCGCTGAGATAGGTGCCTCACTGATTAAGCATTTGGTAACCTGTCAGACCAAGTTTACTCAT
ATATACTTTAGATTGATTTACCCCGGTTGATAATCAGAAAAGCCCCAAAAACAGGAAGAT
TGTATAAGCAAATATTTAAATTGTAAACGTTAATATTTTGTAAATTCGCGTTAAATTT
TTGTTAAATCAGCTCATTTTTTTAACCAATAGGCCGAAATCGGCAAAATCCCTTATAAATC
AAAAGAATAGCCCGAGATAGGGTTGAGTGTGTTCCAGTTTGGAAACAAGAGTCCACTATT
AAAGAACGTGGACTCCAACGTCAAAGGGCGAAAACCGTCTATCAGGGCGATGGCCCACT
ACGTGAACCATCACCCAAATCAAGTTTTTTTGGGGTCGAGGTGCCGTAAAGCACTAAATCG
GAACCCTAAAGGGAGCCCCGATTTAGAGCTTGACGGGGAAAGCGAACGTGGCGAGAAAG
GAAGGGAAGAAAGCGAAAGGAGCGGGCGCTAGGGCGCTGGCAAGTGTAGCGGTACAGCTG
CGCGTAACCACACACCCCGCCGCGCTTAATGCGCGCTACAGGGCGCGTAAAAGGATCTA
GGTGAAGATCCTTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTTCGTTCCA
CTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCG
CGTAATCTGCTGCTTGCAAACAAAAAACCACCGCTACCAGCGGTGGTTTGTGTTGCCGGA
TCAAGAGCTACCAACTCTTTTTTCCGAAGGTAACCTGGCTTCAGCAGAGCGCAGATACCAA
TACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCC
TACATACCTCGCTCTGCTAATCCTGTTACCAAGTGGCTGCTGCCAGTGCGGATAAGTCGTG
TCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTGGGGCTGAAC
GGGGGGTTTCGTGCACACAGCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCT
ACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCC
GGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGGAACCGCTG
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CTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCCTTTTTACGGTTCCCT
GGCCTTTTGCTGGCCTTTTGTCTACATGTAATGTGAGTTAGCTCACTCATTAGGCACCCC
AGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGCGGATAACAAT
TTCACACAGGAAACAGCTATGACCATGATTACGCCAAGCTACGTAATACGACTCACTAG

FIGURE 14B